

**REMARKS**

Claims 1-12 are pending in this application. By this Amendment, claims 1, 7 and 9-10 are amended and claim 12 is added. Reconsideration of the application is respectfully requested.

The Office Action rejects claims 1, 3-4, 6 and 9-10 under 35 U.S.C. §102(b) over Losch (U.S. Patent No. 5,054,870); and claims 1-11 under 35 U.S.C. §102(b) over Yoshimura (U.S. Patent No. 5,757,989). Applicants respectfully traverse these rejections.

In particular, Applicants assert that Losch does not disclose or suggest an optical wiring circuit that includes at least a first optical wave guide that is extended toward one side surface of the board and has a first other end that is located in a neighboring portion of the side surface, and a second optical wave guide extended toward the side surface, and has a second other end that is located in a neighboring portion of the side surface, as recited in independent claim 1.

Applicants further assert that Losch does not disclose or suggest an opto-electric wiring apparatus that includes at least a first and a second optical wave guide wherein the first optical wave guide has a first other end connected to a first end, the second optical wave guide has a second other end connected to the second end and the first and second other ends face a side surface, as recited in independent claim 9.

Specifically, Losch teaches optical and electrical connecting elements for the connection of an electro-optical chip to a substrate, the connecting elements being produced on a flexible interconnect member and connected using the film bonding process (Abstract). However, Losch does not disclose or suggest that a first end of the first optical wave guide faces the side surface connected to the other end. Accordingly, Losch's connection arrangement does not make it possible to stack a plurality of circuits to make a layered body without tight control. As such, Applicants assert that Losch fails to disclose each and every

feature of independent claims 1 and 9 and their dependent claims. Accordingly, Applicants respectfully request that the rejection of the claims under 35 U.S.C. §102(b) over Losch be withdrawn.

Moreover, Applicants assert that Yoshimura fails to disclose or suggest an optical wiring circuit that includes a first optical wave guide extended toward one side surface of a board that has a first other end that is located in a neighboring portion of a side surface and a second optical wave guide extended toward the side surface and a second other end located in a neighboring portion of the side surface, as recited in independent claim 1, and similarly recited in independent claims 7 and 9.

Applicants also assert that Yoshimura does not disclose or suggest an opto-electric wiring apparatus that includes at least an opto-electric conversion circuit with a plurality of electric wiring circuits, as recited in independent claim 11.

Specifically, Yoshimura teaches an optical circuit system that eliminates at least a portion of the light of a light power source and produces an optical signal, wherein the light power source is an optical wave guide into which light has been introduced (Abstract). However, as indicated in Yoshimura's Fig. 31, the optical wave guide does not have a first other end facing the side surface of the board and connected to a first end. Accordingly, because Yoshimura does not disclose this feature, it is difficult to make a layered body as indicated in Yoshimura's Fig. 31. As such, Applicants assert that Yoshimura fails to disclose or suggest each and every feature of independent claims 1, 7, 9 and 11, and their dependent claims. Accordingly, Applicants respectfully request that the rejection of the claims under 35 U.S.C. §102(b) over Yoshimura be withdrawn.

Applicants further assert that neither Losch or Yoshimura discloses or suggests an optical wiring circuit that includes at least a first optical wave guide extended toward one side

surface of a board and has a first end facing the side surface of the board, as recited in new claim 12. As such, allowance of claim 12 is respectfully requested.

In view of the foregoing, it is respectfully submitted that this application is in condition for allowance. Favorable reconsideration and prompt allowance of claims 1-12 are earnestly solicited.

Should the Examiner believe that anything further would be desirable in order to place this application in even better condition for allowance, the Examiner is invited to contact the undersigned at the telephone number set forth below.

Respectfully submitted,



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